Inserting climatic files
Posted by elsadek - 2008/11/06 19:24

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I am trying to use my own climatic data i.e. RH, Temp., Wind, Solar radiation and PET, could you inform me how to create those files and how could I input them in the model(simulation window does contain temperature) and how Can I use more than one temperature file(the model doen't let you add more than one file).
Thanks for your help
Ashraf

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Re:Inserting climatic files
Posted by isburns - 2009/01/09 23:35

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To you use your climatic data, you need to create a climate station, represented as a .wgn file (or make a copy of an existing file and replace its values with your own). You also will need to add a point representing this climate station to the wgn_us83.shp (located in the agwa2datafileswgn folder) file or create your own shapefile representing your own climate stations.

If you create your own shapefile to point to the new climate station you create, you need to make sure it has the same fields as the wgn_us83.shp file. The state field will be the subfolder of the agwa2datafileswgn folder that AGWA will search for your new climate station. AGWA will search that folder for the file in the datafile field of the shapefile. This file should be the name of the climate station you create.

For instructions on how to format the climate station file and for what each line represents, look in the SWAT user manual. It is available at http://www.brc.tamus.edu/swat/doc.html

AGWA will not let you use more than one temperature file. If you want to, you will need to edit the SWAT input files by hand. Again, if you want to do this you'll need to refer to the SWAT user manual on what files need to be edited and the formatting requirements of those files. You'll need to do this between the Write Input Files and Run SWAT steps in AGWA.

You probably do not need to use more than one temperature file, however. SWAT supports up to 150 temperature gages per temperature file. The only way I know how to use multiple gages for temperature is to use one gage per subbasin. Moving from left to right in the temperature file, each temp min/max pair corresponds to the subbasins with ids 1, 2, 3, etc.

Shea

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